



PUMA VTS1214/1214M

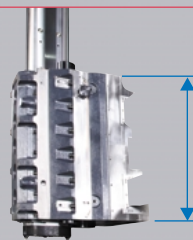
Ram Type Large Vertical Turning Center



Machining Capacity

- Table diameter : 1000 mm {1250 mm **opt.**}
- Hydraulic chuck : 40 inch {50 inch **opt.**}
- Swing over bed : 1400 mm (55.1 inch)
- Max. workpiece height : 800 mm (31.5 inch)
- Max. workpiece weight : 4000 kg (8818.4 lb)

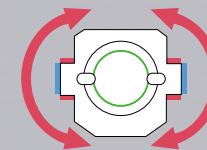
Ram Guide



800 mm
(31.5 inch)
Long guide

Large square
cross section

308 x 250 mm
(12.1 x 9.8 inch)



Oversized guideways
for increased rigidity

ATC Magazine

- Driving system **servo motor**
- No. of tool stations **15 stations**
- Max. tool length **400 mm (15.7 inch)**



Machine Specifications

	Description	Unit	PUMA VTS1214	PUMA VTS1214M
Capacity	Table diameter	mm (inch)	1000 (40)	
	Swing over bed	mm (inch)	1400 (55.1)	
	Max. turning diameter	mm (inch)	1350 (53.1)	
	Max. workpiece height	mm (inch)	800 (31.5)	
	Max. workpiece weight	kg (lb)	4000 (8818.4)	
	Max. spindle torque	N-m (ft-lbs)	6412 (4729)	
Travel	Horizontal travel	To right from table center mm (inch)	1298 (51.1)	
		To left from table center mm (inch)	152 (6.0)	
	Vertical travel of cross rail	mm (inch)	600 (23.6)	
	Vertical travel of ram	mm (inch)	800 (31.5)	
Ram	Ram size	mm (inch)	308 x 250 (12.1 x 9.8)	
	Minimum diameter for deep bores	mm (inch)	320 (12.6)	
Table	Table speed	r/min	2~630	
	Speed ranges	step	2	
Magazine	No. of tool stations	ea	15	
	Tool shank size	mm (inch)	32 (1.3)	
	Type of tool clamping	Turning tools	A2-8 Taper + 2 key	
		Milling tools	-	BT50 Big plus
Feedrate	Rapid travel	Horizontal (X-axis) m/min (ipm)	12 (472.4)	
		Vertical (Z-axis) m/min (ipm)	12 (472.4)	
Motors	Spindle motor	Main table kW (Hp)	45 / 55 / 60 (60.3 / 73.8 / 80.5)	
		Rotary tools kW (Hp)	-	15 / 18.5 (20.1 / 24.8)
Machine size	Machine height	mm (inch)	4820 (168.5)	
	Machine dimension	Length x Width mm (inch)	3590 x 3725 (141.3 x 146.7)	
	Machine weight	kg (lb)	25500 (56218)	26000 (57320)

Standard Features

- 40" 3-Jaw Hydraulic chuck & Actuating cylinder
- ATC shower coolant
- Bed shower coolant
- Ram shower coolant
- Coolant supply equipment
- Full enclosure chip and coolant shield
- Hand tool kit, including small hand tool for operations
- Hydraulic power unit
- Leveling jack screw & plates
- Lubrication equipment
- Oil separation tank
- Standard tooling kit
- OD+Face holder, ID holder
- Work light

Optional Features

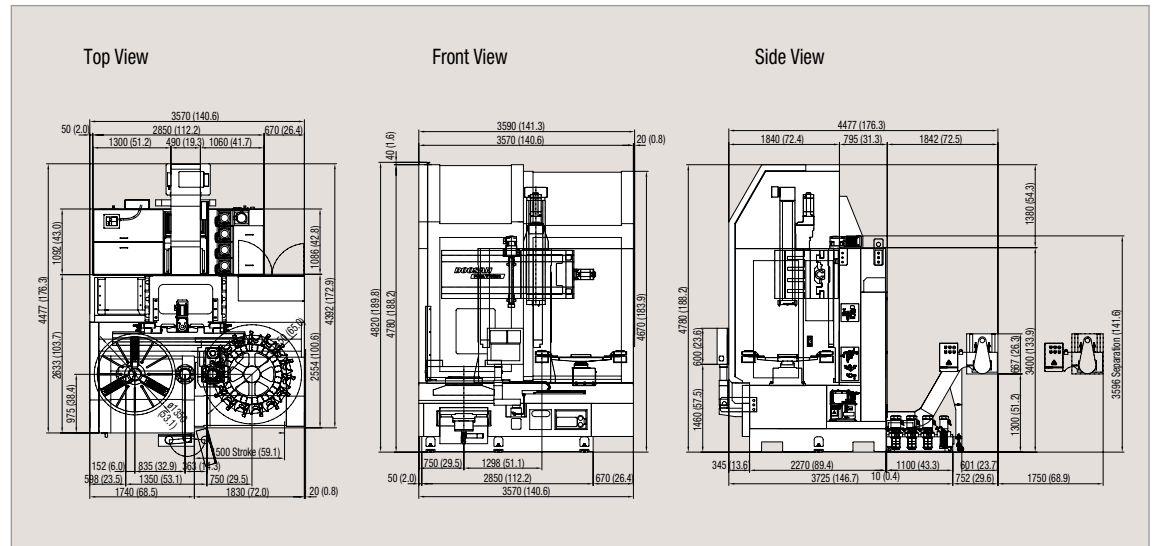
- 50" 3-Jaw hydraulic chuck
- 50" Combination chuck
- 70 Bar coolant system
- Air conditioner for electrical cabinet
- Auto tool presetter (Linear type)
- Automatic front door : with safety edge
- Chip conveyor & Chip bucket
- Coolant gun
- Coolant pressure switch
- Dual pressure chucking
- Linear scale (X, Z-axis)
- Oil mist collector
- Oil skimmer (Belt type)
- Parts probe
- Proximity switch for chuck clamp detection
- Ram spindle through coolant (VTS1214M)
- Special chucks
- Signal tower (yellow, red, green)

NC Unit Specifications Doosan Fanuc i series, Fanuc 32i-A

NC SYSTEM	- Linear interpolation	G01
	- Multiple threading	
- Doosan Fanuc i series		
	- Fanuc 32i-A	
AXES CONTROL	- Controlled axes	X, Z axis
	- Simultaneous controlled axes	2 axes
- Axis control by PMC		
	- Torque control	
- Stroke limit check before move		
	- Mirror image	
INTERPOLATION FUNCTIONS	- Nano interpolation	
	- Reference position return check	G27
- Thread cutting / Synchronous cutting		
	- High speed skip	
- Work coordinate system	G52 - G59	
	- Automatic tool offset	
TOOL FUNCTION / TOOL COMPENSATION	- T-code function	T2 + 2 digits
	- Tool offset	G43, G44, G49
- Tool offset pairs		64 pairs
EDITING OPERATION	- Number of registered programs	
- Doosan Fanuc i series : 400 ea		
	- Fanuc 32i-A : 500 ea	
- Part program storage length		
	- Doosan Fanuc i series : 1280m (512kB)	
	- Fanuc 32i-A : 640m (256kB)	
SETTING AND DISPLAY	- Program name display	31 characters
	- Run hours / parts count display	
OTHERS	- Display unit	10.4" Color TFT LCD / MDI
	- PMC system	
- Manual guide i		
	- Fanuc i series-PMC	
	- Fanuc 32i-A-PMC	
OPTIONAL SPECIFICATIONS	- Controlled axes expansion(total)	Max.4axes
	- Simultaneous controlled axes expansion (total)	Max.4axes
- Advanced preview control		
	- Fast ethernet / Data server	

External Dimensions

Unit : mm (inch)



<http://www.doosaninfracore.com/machinetools>



Doosan Infracore Machine Tools

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Design and specifications are subject to change without prior notice.

i-ser EX1104SP

